**Honors Algebra 2 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Chapter 8.4 and 8.5 Quiz Review**

**Series and Sequences**

**For numbers 1 and 2, consider the infinite geometric series. Find the partial sums  for n=1, 2, 3, 4, and 5. Then describe what happens to  as n increases.**

1.  2. 

**For numbers 3 and 4, find the sum for the infinite geometric series, if it exists.**

3.  4. 

**For numbers 5 and 6, write the first six terms of the sequence.**

5.  6. 

**For numbers 7 and 8, write a recursive rule for the sequence.**

7.  8. 

**For numbers 9 and 10, write a recursive rule for the sequence.**

9.  10. 

**For numbers 11 and 12, write an explicit rule for the sequence.**

11.  12. 